

Application No.: 10/062,562

AMENDMENTS TO THE CLAIMS

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1. (Currently Amended) A high dielectric constant composite material having a dielectric constant of 15 or above in the frequency region of from 100 MHz to 40 GHz, comprising:

an organic resin and, dispersed therein, an inorganic filler ~~containing a metal powder as its essential component~~, wherein

the inorganic filler contains as its essential component a metal powder subjected to an insulation treatment and

each component of the inorganic filler containing the metal powder has an average particle size of 5 μ m or less; and

a surface treatment film, which is chemically bonded with the metal powder and the organic resin, on a surface of the insulation treated metal powder of the inorganic filler.

2. (Original) A high dielectric constant composite material according to Claim 1, wherein the composite material has a dielectric loss tangent in the frequency region of from 100 MHz to 80 GHz of 0.1 or less.

3. (Canceled)

4. (Original) A high dielectric constant composite material according to claim 1, wherein the inorganic filler containing a metal powder as its essential component includes agglomerates, and the agglomerates of the inorganic filler has an average particle size of 5 μ m or less.

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5. (Original) A high dielectric constant composite material according to claim 1, wherein the metal powder has a metallic covering layer on the surface thereof with a thickness of 1000 to 1 nm, and a metal for covering being at least one member selected from the group consisting of Cr, Cd, Zn, Mn and Fe.

6. (Canceled)

7. (Previously Presented) A high dielectric constant composite material according to Claim 1, wherein said insulation treatment is a chemical treatment using an inorganic salt.

8. (Original) A high dielectric constant composite material according to Claim 1, wherein the inorganic filler uses a metal oxide together with the metal powder.

9. (Original) A high dielectric constant composite material according to Claim 1, wherein said metal powder is a powder of an element of Group 1B, 2B, 3B, 4B, 5B, 6B, 7B, 8, 2A, 3A, 4A or 5A (excluding boron, carbon, nitrogen, phosphorus and arsenic) or an alloy thereof.

10. (Original) A high dielectric constant composite material according to Claim 7, wherein said metal powder is powder of Al, Mn, Si, Mg, Cr, Nb, Ni, Mo, Cu, Fe, W, Zn, Sn, Pb, Ag, Ti, Zr, Ta, Pt, Sb or an alloy thereof.

Claims 11-12 (Cancelled)